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Smith(10) **Pub. No.: US 2010/0218483 A1**(43) **Pub. Date: Sep. 2, 2010**(54) **CONTROLLED FAN STREAM FLOW BYPASS****Publication Classification**(75) Inventor: **J. Walter Smith, Seneca, SC (US)**(51) **Int. Cl.**
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F01D 13/02 (2006.01)(52) **U.S. Cl.** **60/262; 415/145**(57) **ABSTRACT**

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A turbine engine component of a turbofan engine fitted with a bypass air valve includes at least one turbine engine component having a surface with at least one aperture, said turbine engine component located from between a bypass fan duct and a turbine exhaust nozzle of the turbofan engine; a bypass air valve includes a liner concentrically disposed about the turbine engine component and parallel to a centerline of the turbofan engine, the liner has a surface including at least one aperture and at least one impermeable region, and means for actuating the liner about the turbine engine component; and a flow transfer location comprising an area proximate to a turbine exhaust stream flow.

